

05-14-2001

ATTORNEY DOCKET NO: M-9302 US



EET

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

101716116

TO THE HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

## 1. Name of conveying party(ies):

- (a) James A. Fair
- (b) Wilbert Van den Hoek
- (c) Nerissa Taylor

5-30-01

Additional name(s) of conveying party(ies) attached?

☐ Yes☐ No

## 2. Name and address of receiving party(i s):

Name: Novellus Systems, Inc.

Street Address: 3970 North First Street

City: San Jose

State CA Zip 95134

Country: United States of America

JC872 U.S. PTO  
09/849075

05/03/01

## 3. Nature of Conveyance:

- ☒ Assignment ☐ Merger
- ☐ Security Agreement ☐ Change of Name
- ☐ Other \_\_\_\_\_

Execution Date: April 30, 2001

## Name and address of receiving party(ies):

Name:

Street Address:

City:

State:

Zip:

Country:

Additional name(s) &amp; address(es) attached?

☐

Yes

☐

No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: April 30, 2001

## A. Patent Application No.(s) -

Title: Sequential Ion, UV, and Electron Induced Chemical Vapor Deposition

## B. Patent No.(s)

Additional numbers attached?

☐

Yes

☐

No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Carmen C. Cook, Esq.

Internal Address: SKJERVEN MORRILL MacPHERSON LLP

Street Address: 25 METRO DRIVE, SUITE 700

City SAN JOSE State CA Zip 95110

## 6. Total number of applications and patents involved: 1

## 7. Total fee (37 CFR 3.41): \$40.00



Authorized to be charged to Deposit Account 19-2386



Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

DO NOT USE THIS SPACE

## 8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Carmen C. Cook

42,433

Name of Person Signing

Signature

5/3/01

Date

Total number of pages comprising cover sheet: 1

# ASSIGNMENT

For good and valuable consideration, receipt of which is hereby acknowledged, we

<u>James A. Fair</u>	of	<u>Mountain View, California</u>
<u>Wilbert van den Hoek</u>	of	<u>Saratoga, California</u>
<u>Nerissa Taylor</u>	of	<u>Milpitas, California</u>

hereby sell, assign and transfer to Novellus Systems, Inc., a California corporation, having a place of business at 4000 North First Street, San Jose, CA 95134, its successors and assigns, the entire right, title and interest throughout the world in our invention in:

## Sequential Ion, UV, and Electron Induced Chemical Vapor Deposition

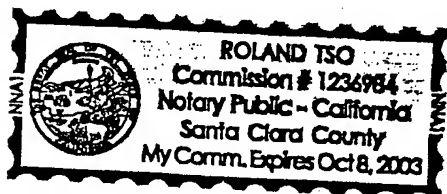
for which we have executed a United States patent application on or about the date of this assignment, and all patent applications and patents of every country for said invention, including divisions, reissues, continuations and extensions thereof, and all rights of priority resulting from the filing of said applications; we authorize the above-named assignee to apply for patents of foreign countries for said invention, and to claim all rights of priority without further authorization from us; we agree to execute all papers useful in connection with said United States and foreign applications, and generally to do everything possible to aid said assignee, their successors, assigns and nominees, at their request and expense, in obtaining and enforcing patents for said invention in all countries; and we request that the United States Patent and Trademark Office issue all patents granted for said invention to the above-named assignee, its successors and assigns.

Executed this 30 day of April, 2001.

James A. Fair  
James A. Fair

State of California     )  
  ) ss.  
County of Santa Clara     )

On April 30, 2001 before me, Roland Tso, Notary Public  
personally appeared James A. Fair personally known to  
me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s)  
is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the  
same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the  
instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the  
instrument.



WITNESS my hand and official seal.

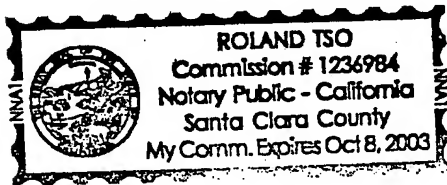
Roland Tso  
SIGNATURE OF NOTARY

Executed this 30 day of April, 2001.

Wilbert van den Hoek  
 Wilbert van den Hoek

State of California )  
 ) ss.  
 County of Santa Clara )

On April 30, 2001 before me, Roland Tso, Notary Public  
 personally appeared Wilbert van den Hoek personally known to  
 me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s)  
 is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the  
 same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the  
 instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the  
 instrument.



WITNESS my hand and official seal.

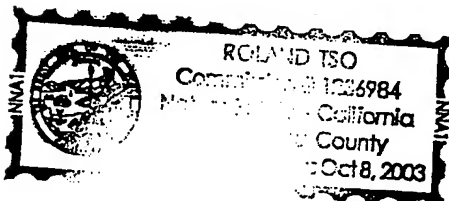
Roland Tso  
 SIGNATURE OF NOTARY

Executed this 30 day of April, 2001.

Nerissa Taylor  
 Nerissa Taylor

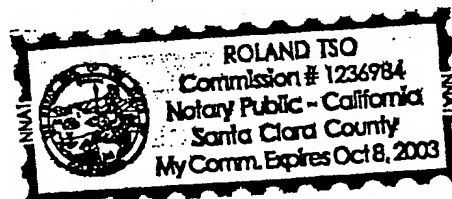
State of California )  
 ) ss.  
 County of Santa Clara )

On April 30, 2001 before me, Roland Tso, Notary Public  
 personally appeared ~~Bo R.T.~~ Nerissa Taylor personally known to  
 me or proved to me on the basis of satisfactory evidence to be the person(s) whose name(s)  
 is(are) subscribed to the within instrument and acknowledged to me that he/she/they executed the  
 same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the  
 instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the  
 instrument.



WITNESS my hand and official seal.

Roland Tso  
 SIGNATURE OF NOTARY



RECORDATION FORM COVER SHEET  
PATENTS ONLYU.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

TO THE HONORABLE DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE. PLEASE RECORD THE ATTACHED ORIGINAL DOCUMENTS OR COPY THEREOF.

## 1. Name of conveying party(ies):

- (a) James A. Fair  
(b) Wilbert Van den Hoek  
(c) Nerissa Taylor

Additional name(s) of conveying party(ies) attached?

☐ Yes☐ No

## 2. Name and address of receiving party(ies):

Name: Novellus Systems, Inc.

Street Address: 3970 North First Street

City: San Jose

State CA Zip 95134

Country: United States of America

JC872 U.S. PTO  
09/849075

## 3. Nature of Conveyance:

- ☒ Assignment ☐ Merger  
☐ Security Agreement ☐ Change of Name  
☐ Other \_\_\_\_\_

Execution Date: April 30, 2001

## Name and address of receiving party(ies):

Name:

Street Address:

City:

State:

Zip:

Country:

Additional name(s) &amp; address(es) attached?

☐ Yes☐ No

## 4. Application number(s) or patent number(s):

If this document is being filed together with a new application, the execution date of the application is: April 30, 2001

## A. Patent Application No.(s) -

Title: Sequential Ion, UV, and Electron Induced Chemical Vapor Deposition

## B. Patent No.(s)

Additional numbers attached?

☐ Yes☐ No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Carmen C. Cook, Esq.

Internal Address: SKJERVEN MORRILL MacPHERSON LLP

Street Address: 25 METRO DRIVE, SUITE 700

City SAN JOSE State CA Zip 95110

## 6. Total number of applications and patents involved: 1

## 7. Total fee (37 CFR 3.41): \$40.00

- ☒ Authorized to be charged to Deposit Account 19-2386  
☒ Charge Deposit Account 19-2386 for any additional fees required for this conveyance and credit deposit account 19-2386 any amounts overpaid

DO NOT USE THIS SPACE

## 8. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

Carmen C. Cook 42,433  
Name of Person Signing  
Signature5/3/01  
Date

Total number of pages comprising cover sheet: 1

---

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

---

In re application of: FAIR, et al

Attorney Docket No.:

NOVLP067/NVLS-000376

Application No.: 09/849,075

Examiner: MEEKS, TIMOTHY

Filed: 05/03/2001

HOWARD

Title: SEQUENTIAL ION INDUCED  
CHEMICAL VAPOR DEPOSITIONGroup: 1762

---

**CERTIFICATE OF MAILING**

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail to: Commissioner for Patents, Washington, DC 20231 on

~~May 8, 2003~~Signed: Leslie Russell

---

**POWER OF ATTORNEY BY ASSIGNEE  
AND REVOCATION OF PREVIOUS POWERS**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Novellus Systems, Inc., ("assignee"), a California corporation having a place of business 3970 North First Street, San Jose, CA 95134, certifies that to the best of assignee's knowledge and belief it is the assignee of the entire right, title, and interest in and to the above-referenced patent application and represents that the undersigned is a representative authorized and empowered to sign on behalf of the assignee.

Assignee has reviewed the assignment document that evidences the placement of title in the assignee, a true and correct copy of which is attached hereto, and understands and believes that this assignment document has been submitted for recordation in the U.S. Patent and Trademark Office.

Pursuant to 37 C.F.R. §§1.36 and 3.71, the assignee hereby revokes all powers of attorney previously given and hereby appoints the law firm of Beyer Weaver & Thomas, LLP and all practitioners who are associated with the Customer Number 022434 as principal

attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Please send all correspondence for this application as follows:

**Customer Number 022434**  
**BEYER WEAVER & THOMAS, LLP**  
P.O. Box 778  
Berkeley, CA 94704-0778



Please direct any calls to **Jeffrey K. Weaver** (510) 843-6200.

Assignee of Interest:

Novellus Systems, Inc.  
3970 North First Street, San Jose, CA 95134

Date MAY 06 2003

A handwritten signature in cursive script, appearing to read "W. van den Hoek", written over a horizontal line.

Name: Wilbert G. M. van den Hoek  
Title: Chief Technical Officer and Executive Vice  
President

**DECLARATION FOR PATENT APPLICATION  
AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below adjacent to my name.

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of subject matter (process, machine, manufacture, or composition of matter, or an improvement thereof) which is claimed and for which a patent is sought by way of the application entitled

**Sequential Ion, UV, and Electron Induced Chemical Vapor Deposition**

which (check) ☒ is attached hereto.  
☐ and is amended by the Preliminary Amendment attached hereto.  
☐ was filed on    as Application Serial No.  
☐ and was amended on    (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56.

I hereby appoint the following practitioners to prosecute this application and to transact all business in the United States Patent and Trademark Office connected therewith:

Alan H. MacPherson (24,423); Brian D. Ogonowsky (31,988); David W. Heid (25,875); Norman R. Klivans (33,003); Edward C. Kwok (33,938); David E. Steuber (25,557); Michael Shenker (34,250); Stephen A. Terrile (32,946); Peter H. Kang (40,350); Ronald J. Meetin (29,089); Ken John Koestner (33,004); Omkar K. Suryadevara (36,320); Michael P. Adams (34,763); Robert B. Morrill (43,817); James E. Parsons (34,691); Philip W. Woo (39,880); Michael J. Halbert (40,633); Gary J. Edwards (41,008); Daniel P. Stewart (41,332); Tom Chen (42,406); Fabio E. Marino (43,339); Don C. Lawrence (31,975); Marc R. Ascolese (42,268); Carmen C. Cook (42,433); David G. Dolezal (41,711); Roberta P. Saxon (43,087); Mary Jo Bertani (42,321); Sam G. Campbell (42,381); Matthew J. Brigham (44,047); Shireen Irani Bacon (40,494); Rory G. Bens (44,028); George Wolken, Jr. (30,441); John A. Odozynski (28,769); Paul E. Lewkowicz (44,870); Theodore P. Lopez (44,881); Eric Stephenson (38,321); Christopher Allenby (45,906); David C. Hsia (46,235); Mark J. Rozman (42,117); Margaret M. Kelton (44,182); Do Te Kim (46,231); Alex Chen (45,591); Gregory J. Michelson (44,940); Jonathan Geld (44,702); Emmanuel Rivera (45,760); Jason FarHadian (42,523); Matthew J. Spark (43,453); Elaine H. Lo (41,158); Jon Hallman (42,622); Robert Strawbrich (36,692); Rita Wisor (41,382); Gregory Powell (47,005); Mark E. Schmidt (47,063); Rachel V. Leiterman (46,868); Joseph K. Hollinger (40,649); K. Alison de Runtz (37,119); James Hsue (29,545); Philip Yau (32,892); Gerald Parsons (24,486); Michael Cleveland (46,030); Brian A. Schar (45,076); Jack Musgrove (31,986); Abdul R. Zindani (46,901); William L. Robinson (47,032); D'Ann Rifai (47,026); Gergely T. Zimanyi (45,754); and Roland Tso (39,403).

Please address all correspondence and telephone calls to:

Carmen C. Cook  
**SKJERVEN MORRILL MacPHERSON LLP**  
 25 Metro Drive, Suite 700  
 San Jose, California 95110-1349

Telephone: 408-453-9200  
 Facsimile: 408-453-7979

I declare that all statements made herein of my own knowledge are true, all statements made herein on information and belief are believed to be true, and all statements made herein are made with the knowledge that whoever, in any matter within the jurisdiction of the Patent and Trademark Office, knowingly and willfully falsifies, conceals, or covers up by any trick, scheme, or device a material fact, or makes any false, fictitious or fraudulent statements or representations, or makes or uses any false writing or document knowing the same to contain any false, fictitious or fraudulent statement or entry, shall be subject to the penalties including fine or imprisonment or both as set forth under 18 U.S.C. 1001, and that violations of this paragraph may jeopardize the validity of the application or this document, or the validity or enforceability of any patent, trademark registration, or certificate resulting therefrom.

Full name of first joint inventor: James A. Fair  
 Inventor's Signature: James A. Fair Date: 4/27/01  
 Residence: Mountain View, California  
 Post Office Address: 2417 Laure Lane Citizenship: United States  
 Mountain View, CA 94043

Full name of second joint inventor: Wilbert van den Hoek  
 Inventor's Signature: Wilbert van den Hoek Date: 4/30/01  
 Residence: Saratoga, California  
 Post Office Address: 15470 Bohlman Road Citizenship: Dutch  
 Saratoga, CA 95070

Full name of third joint inventor: Nerissa Taylor  
 Inventor's Signature: Nerissa Taylor Date: 4/30/01  
 Residence: Milpitas, California  
 Post Office Address: 513 Penitencia Street, Apt. 4 Citizenship: United States  
 Milpitas, CA 95035





UNITED STATES DEPARTMENT OF COMMERCE  
Patent and Trademark Office  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231

M-730245

JULY 26, 2001

PTAS

SKJERVEN MORRILL MACPHERSON LLP  
CARMEN C. COOK, ESQ.  
25 METRO DRIVE  
SUITE 700  
SAN JOSE, CA 95110



\*101716116A\*

RECEIVED  
BY: [illegible]

JUL 31 2001

SECRETARY OF COMMERCE

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 05/03/2001

REEL/FRAME: 011780/0504

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FAIR, JAMES A.

DOC DATE: 04/30/2001

ASSIGNOR:

VAN DEN HOEK, WILBERT

DOC DATE: 04/30/2001

ASSIGNOR:

TAYLOR, NERISSA

DOC DATE: 04/30/2001

ASSIGNEE:

NOVELLUS SYSTEMS, INC.  
3970 NORTH FIRST STREET  
SAN JOSE, CALIFORNIA 95134

SERIAL NUMBER: 09849075

FILING DATE: 05/03/2001

PATENT NUMBER:

ISSUE DATE:

ATTORNEY:

DES/CCC

ACTION: CK Priority DUE: 9-3-01  
ACTION: FF Rem DUE: 2-3-02  
ACTION: FF Due DUE: 5-3-02  
DOCKETED BY: RD DATE: 8-20-01  
FORM LETTER: YES/NO

Status 5-3-03

011780/0504 PAGE 2

TARA WASHINGTON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



**UNITED STATES DEPARTMENT OF COMMERCE**  
**Patent and Trademark Office**  
ASSISTANT SECRETARY AND COMMISSIONER  
OF PATENTS AND TRADEMARKS  
Washington, D.C. 20231



\*101716116B\*

AUTHORIZATION TO CHARGE ADDITIONAL FEES TO DEPOSIT ACCOUNT

JULY 26, 2001

TO: OFFICE OF FINANCE  
FROM: ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS  
SUBJECT: DEPOSIT ACCOUNT CHARGE(S)

CHARGE THE DEPOSIT ACCOUNT LISTED BELOW ADDITIONAL FEE(S) AS INDICATED  
BELOW. AUTHORIZATION TO CHARGE ADDITIONAL FEES HAS BEEN PROVIDED PER  
THE ATTACHED COVER SHEET, OR BY DIRECT CONTACT WITH THE CUSTOMER.

DEPOSIT ACCOUNT NUMBER: 192386  
PROPERTY NUMBER: 09849075

RECORDING FEES:

FEE CODE: 581 AMOUNT: 40

IF YOU HAVE ANY QUESTIONS REGARDING THIS NOTICE, YOU MAY CONTACT  
THE INDIVIDUAL WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723.

TARA WASHINGTON, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

TRADEMARK SERVICE FEES:	FEE CODE:
RECORDING FIRST MARK	481
RECORDATION SECOND AND SUBSEQUENT MARK IN SAME DOCUMENT	482
LABOR CHARGES FOR SERVICES PER HOURS OR FRACTION THEREOF	484
UNSPECIFIED OTHER SERVICES	485

PATENT SERVICE FEES:

RECORDING EACH PATENT ASSIGNMENT, AGREEMENT, OTHER PAPER, PER PROPERTY	581
---	-----

LABOR CHARGES FOR SERVICES PER HOUR	584
(\$30) OR FRACTION THEREOF	
UNSPECIFIED OTHER SERVICES	585